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## **ABSTRACT**

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The present invention relates to the superite and diagnostic methods for sufferior of malignancy of nervous cystem disorders and compositions based on Notch proteins and nucleic acids. The treatment of Notch proteins of nucleic acids. provides for treatment of disorders of cell fate or differentiation by administration of a therapeutic compound of the invention. Such therapeutic compounds (termed herein "Therapeutics") include Noteh proteins and analogs and derivatives 5 (including fragments) thereof, antibodies thereto, nucleic acids encoding the Notch proteins, analogs, or derivatives, Notch antisense nucleic acids, as well as toporythmic proteins and derivatives which bind to or otherwise interact with Notch proteins and their encoding nucleic acids and antibodies. In a preferredembodiment, a Therapeutic of the invention is administered to treat a cancerous condition, or to prevent progression from a pre-neoplastic or non-malignant stateinto a neoplastic or a malignant state. In other embodiments, a Therapeutic is administered to treat a nervous system disorder or to promote tissue regeneration and repair. In one embodiment, Therapeutics which antagonize, or inhibit, Notch function (hereinafter "Antagonist Therapeutics") are administered for therapeutic 15 effect. In another embodiment, Therapeutics which promote Notch function (hereinafter "Agonist Therapeutics") are administered for therapeutic effect. Therapeutic Diagnostic methods and methods of inhibiting Notch expression are also provided.

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